NERDS EXAMINATION SERIES (MATHEMATICS DEPARTMENT)					
MARKING GUIDE FOR PRIMARY LEAVING MOCK 2024 (MTC)					
QN	SOLUTION	MARKS	COMMENT		
1.	0505 5 2525	B	- Encourage		
	0x5=0v	,	the use of		
	$5x5 = \frac{25}{25}$		Long division		
	$0x5 = \frac{0}{25}$	1	- Follow the		
	5 x5 = 25	A	Order DMSB Divide 7 Long		
	00_ 2525 ÷ 5 = 505 V		Multiply division Subtract) Bringdown		
2.	Sheep he had at first	81	- Getting the		
	43sheep		number of sheep		
	+ 19 sheep 62 sheep		had at first		
	62 in Roman Numerals:		is the not thing		
	62 = 60 + 2		to be done.		
	62 = LX 11				
	62 = LXII /	A			
3.	complement of (x-50)	RI	- Complementary		
	Let the complement be 7 1 + (2c-50)° = 90°		angles addup		
	$= 90^{\circ} - (x - 50^{\circ})$		to 90°		
	7 = 90°-x+50°		- Accept		
	7 = 90+50°-2		90 - (x-50)		
	$7 = 140^{\circ} - 3c$ $7 = (140 - 2)^{\circ}$	A	Straight forward		

DN.	SOLUTION	MARK	COMMENT
4	Adozen has 12 items.	1001124	Continue
	Sh. 9000 (>) 12 books	Bı	- Teach to mouster-
	Sh. 1 < > 12 books		the approach of
	Sh30002 > 12 4 x3 pm		direct and indirect proportion to prevent
	Sh. 3000 () 4 books	A	learners from
	4 books can be purchased out sh. 3,000 V		Confusing the two.
5	Length of the arc is		
	given to be 1256cm		
	± 277 = 1256 cm €	31	- Follow through steps
	72 x2x3·14r = 1256cm 360 +++ 1		
-4	$\frac{72}{360}$ x2x314 $\Gamma = 12.56$ cm		
	180 30 10	-	- Revise concept of
	10×100 = 1256 cm		circles Vigorousty
	1256 × 1000 = 1256 cm × 100	00	
	1256r = 1256000 cm		T
	1256	A	For correct answer
	r = 1000cm		<i>j</i> -

9N	MOLLINON	MARK	- For correct position of arrows
	+8 / +5-3=+8	Ap	- For Summary.
7	63, 52, 45, 40, 437, 35	8)	For determining next two numbers
	Difference H-L 37-35 = 2	A	- For finding the difference.
\$	157.5	B2.	- Revise all reflex, Complements and suplements of angles that can be construct without a protractor On sight
	(1 of 4P)-P = 19 (1 x h)-P = 19 2P-P = 19	127	- For following Bodmas order property
	P = 19 /	b -	- For comect amower

@N		MARKS	COMMENT
10	$\sqrt{71}q = \sqrt{64}$ $\sqrt{932}$ $\sqrt{16}$ $\sqrt{71}q = \sqrt{64}$ $\sqrt{932}$ $\sqrt{16}$ $\sqrt{9}$ $\sqrt{9}$ $\sqrt{16}$ $\sqrt{9}$ \sqrt	B	- For numerator square noot and denominator voot separately - Answer must
	√7====================================	A	be put borde to mixed numeral format.
11	72 or 2 72 2 36 2 36 2 18 3 3 3 3 3 3 3 3 2 x2 x2 x3 x3 2 x 2 x 3 x 3	R	Supersempts also mean powers. Deject subscriptuel form.
12.		B_	oneight

9N SOLUTION 13. 35° 30° 90° 9+80° = 135° 9+80°-80° = 135°-80° 9 = 55°	BI	Revice angles formed on parallel lines.
14. 14 4 three to base ten	BI	Day to day, usual base, ordinary base, etc are words that can mean decimal base or base ten.
15. ST = ET = D 75 15 15 15 15 15 15 15 15 10:50 15. 1:15 13:15 10:50 1+ Started at 1 10:50 am	P	for getting the starting time first

9N	COLUTION	MARK	S COMMENT
	12 1 2 3 3 5 4 5 5 4 S	B	For correctly representing the Starting time on the clock force.
16	SOD = Mean		
	P+3+0+7 = 4	13)	- For correct interpretation.
	4xP+3+0+7 = 4x4 7 $P+10 = 16$		
	P = 16-10 P = 6 N	A	- Fer correct
17-	Thousands Units		
	20 024	0	
	Twenty thousand twenty four N	5_	On sight

- ADY	SOLUTION	MARKS	COMMENT
18.	From,		- Encourage
	(1 - 1 - 100)		
	(Lastrote-Istrate) = No of	h	moistery of
		[B]	Concept in all
	Serial no of the 1st note		areas.
	= hastnote - (100-1) note		
	1100	1	
	= AP00157839		
	99	A +	For conect
	11 /	Al	Subpaction.
	APOO157740 V		
19.	SXSXS = V		
	S3 =V	-	- Revise application
	53 = 2.25 m ³	6	et signaire root
	$\sqrt{5^3} = \sqrt{2.25 \text{M}^3}$	B)	
	<u> </u>		and Cube root
	$\sqrt{3} = \sqrt{225} \text{M}^3$		involving
	ts3 = V225,5		Jeometrical
	$ts^3 = \frac{\sqrt{225}}{\sqrt{100}}$		tigures.
	,		
	S = 15 M) -	- Learners should
	S = 1.5m /	4	be encouraged to
		1	the presente first
	The cube is 1.5m long.		An Wall

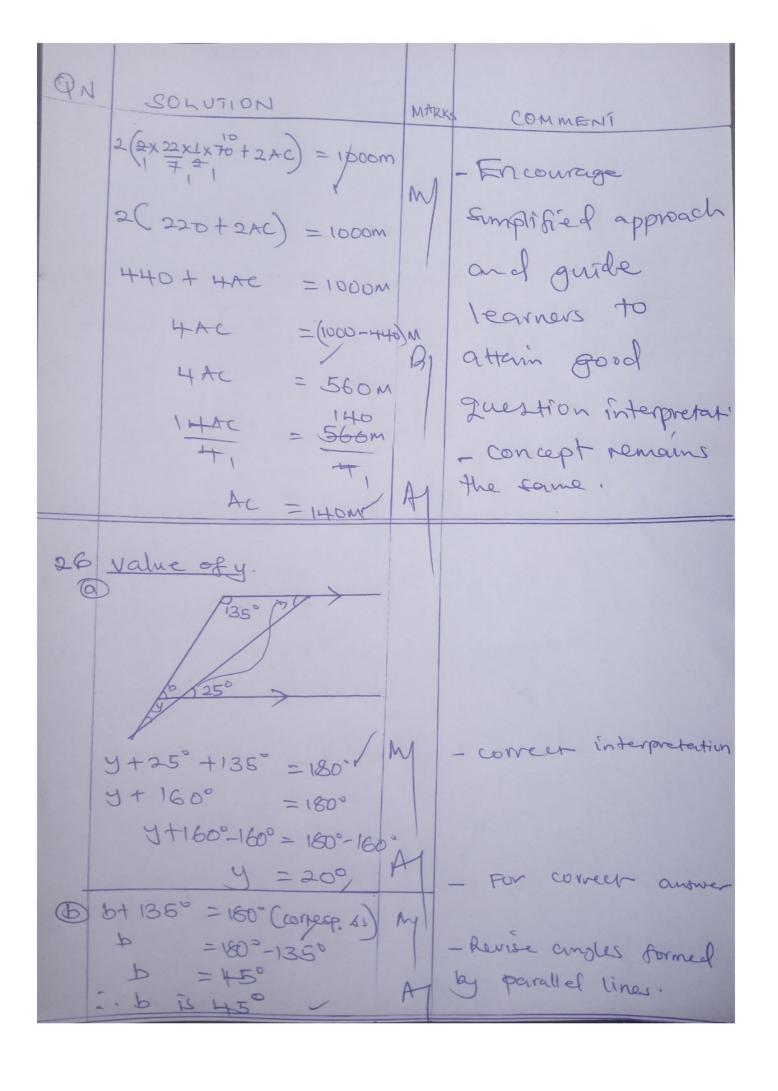
MP	SOLUTION	MARKI	COMMENT
20.			Revise all lines
	XIX		of symmetry
			including
	1.5	B	alphenbetical
	1 Line of Symmetry.		letters
21.			
9)	Value of m.		
	n(H) only = Meither		- For correct
	18-m = 2m+3	M	interpretation
	18-3 = 2M-M		
	15 = M /	X	- For correct answe
5)	Pupils who like only		
	one game.		
	= (5m) + (18 - m)		
	=(5 x15) H(1B-15)	RI	- Gerting the
	= 75+3		Number of events
	= 78 pupils		Cpupils who like
	Total no of pupils 5 m)+(18-m)+(m)+ (2 m+3)		only one game)
	6x15)+(18-15)+15+(2x15+3)	.0.1	C = 90H'00 . '.
	15 + 3 + 15 + 33/	1	For getting universal
+	126 pupils P = NOE 78/		
	P = 78 / 126/	A	writing the probability.
	126 V	A	willing the protectionly.

			,
PN			
	SOLUTION	MARKS	COMMEN'I
22.	450 dollars to yesh.		
	1US\$ = 48h 3,600		
	450 USA = (450 x3600)	^	- Levise foreign
	LIED YOU	161	exchange rates
	450 US4 = UBSh1620,000		- Simple approach
	Amount spent in Ugsh		L-Little (Local to
	Koh 1 = 40 ganda shilly		F-Fox (Foreign)
	KSh32275 = U88h32275440	Po	D-Dies (Divide)
	KSh32275 = Ugsh1291000		S - Slowly Csellinger
	Amount that remained		F-Fire (Foreign to)
	Ugsh. 1291,000 / 6		L-Light Chocal)
	Ugsh 1291,000 V	7	M-Much Cmutiply be
			B-Brightness (Buying
	Ugsh 329 000 to pounds		price
	188h 4700 = 1 pound st		
(Ugsn32900 = 3920 \ N	\sim)	
	$188h 4700 = 1 pound of 198h 32900 = 392000 $ $\frac{329000}{7700}$	nds	
	J98h329,000 = 70 pounded		
1	the bank. To from f	4	
	The bank.		7 0

QN .			
23. 203+1+2+	4) - 516	MARKI	COMMENT
= 10 pupils	Pupis	\B]	on tight
b) Mark frequ	enc-		
30% 3			
901 1			
75% 2		h	For correct
The modal mark	V 1		'identification
2)			
Mean = SOD NOD	V B1		for correct
Mean = (30x3)+Ai	H(252)+ (M		working procedure
3+1+:	2+4		
Mean = 90+91	DHISOTION		- For correct
100	0 /0		addition and
Mean = 430	<u> </u>		multiplication.
Mean = 43	111		
The mean seo was 43%	M	C	For Sumany as

OH	SOLUTION	MARK	COMMENT
24:	Time John B Naboth		
	Now 178 11	By	Summarising
	4415 nt8-4 n-4 V		given in formation on a simple
	Theratio was 4:3		table form simplif
	John B: Nabota = 4:3		s groen 2
	$\frac{n+4}{n-4} = \frac{4}{3}$	M	- Interpreting
			the concept of
	3(n+4) = 4(n-4) 3n+12 = 4n-16		Comparison of
	3n-4n = -16-12		Hems by division
	$\frac{\pm n}{\pm 1} = \pm 28$ $= \pm 28$		
	John bosco Maboth		
	1+8 = n / 28+8 = 28 years		
	36years V		

60 .			
MB	SOLUTION	MARKS	COMMENT
246)	When (-t) were present 6-1=5 were present No of children in the		For fraction present.
	= 35; 5 = 35 x 6 = 35 x 6 = 42 pupils /	87	- Getting the total number of pupits in the class.
	Lx 42 _ Spupils were absent Pupils present +2 pupils - Spupils 36 pupils.		Also getting the fraction present and working out that fraction of to btal he is correct.
	Perimeter $x_2 = 1000 \text{ m}$ Arctactactac = P 2(2Arcs + 2Ac) = 1000 m	191	



DN SOLUTION	MARKS	COMMENT
27. Sketch. That 45°2 R & Cm	S	The sketch carries a mark that's why It is Very vital.
Han 5 45° 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	C2	- construction of 90° and 45° (one mark@) - correct sides (Imark)
Area $\frac{Area}{3.9 \text{ cm}}$ $A = \frac{1}{2}h\text{Ca+6}$ $A = \frac{1}{2}h\text{Ca+6}$ $A = \frac{1}{2}x\text{4 cm}\text{CHem+8 cm}$ $A = \frac{1}{2}x\text{4 cm}\text{C12 cm}$		- For correct method - The answer
$A = 2 \operatorname{cm} x 12 \operatorname{cm}$ $A = 2 \operatorname{Hcm}^2$ The Area is $2 \operatorname{Hcm}^2$	A	- The answer may varry depending on the Length UT for getting the right answer.

THE	SOLUTION	MARKS	COMMENT
28	39+2 (b-c)		
9)	3×12+2(2-1)	M1	Follow Iknough
	3x++2(3-1)		Steps.
	$\frac{3}{2}$ + 2 $\left(\frac{2}{4}\right)$		
	3 + 2 × 2 1 + 2		
	3 + 1		
	3+2		
	= 5/2	A	- Answer must be snuplified.
	= 2 =		
6)	5(3n-i)-3(n-i) = 22	101	
	15n-5-3n+3=22		correctly collecte
	151-31+3-5 = 22		like terms involving
	12n-2 =22		Crossing equal
	12n =22+2		Signs.
	$\frac{1}{12} = \frac{2}{12}$ $\frac{1}{12} = \frac{2}{12}$ $\frac{1}{12} = \frac{2}{12}$	18/ -	- For answer.

NP	SOLUTION	MARKS	COMMENT
	143 six to base 10 143 six to base 10 143 six to base 10 143 143 143 143 13 13 144 145	P	- In division of beises esp. when they are the Same. Changing them to base 10 is a must and after changing back to the given base in case the bases are different the answer can Stay in base

PH		MARKS	COMMENT
29 6	(5x10) + (4x10)) + (2x10)) +		
	(2×1000000)+		
	(2x1) + (3x1)		
	5000000+ 400000+		
	0.02 + 0.003		1 - consequent
	£ 40000.000 /		-correct arrangent of placevalues
	5,040,000·023 V	Al	head to the
30	g) Total dutance = 460km		
	Total time without Stops		
	7 = D 57 = 2+60 Km		
	60	B,	Getting total
	70 tel time on stopovers		then applying the
	= 4×40min = 160min		concept of
	= 160 min		duration.

DN MARKS COMMENT SOLUTION Time for the whole towney 160min +73hr 2hr Homin + 7hr Homm 2;40 7:40 10 20 V 10hr and 20min Arrival time in kampala 8:00 hr 10:20 hr 18 20 hrs 18:20 -12:00 6: 20 pm He arrived kampeda at 6: 20 pm. / f B) 80% of the Journey - Alearner =(80 × 460) Km must first Know what 80% RI but 1 Litre was of the Journey used in every 15 km re presents

PN	SOLUTION	MARKS	COMMENT
	15 km ←> (1) Litres 1 km ←> (1) Litres (80 × 460) ←> (80 × 460×1) (100 km (100) 15		
	80% of (368) Litre Hoursey Bolo of the journey would cost Sh3900 x 368 +5		Here you may encourage learners to let it be the way it is and get down with the calculation.
	Sh. 95,680	A	
C	Time token would be: T=D S5% T= #60 180=53/4hrs	B)	Le would take.

92	SOLUTION	MADO	COMMEN
31.	He would arrive Kampala at 8:00 am +5 2/hrs 8:00 am +5hr +5mm 8:00 \ 5:45 13:45 13:45 12:00 \ 1:45pm Principal Cmoney borrowed) Amount = P + 1 Amount = sh +50,000 sh +50,000 = (PRT) + P / sh +50,000 = (PRT) + P	Å -	The answer should be in a pahr clock for correct answer. Follow through the working procedure.
	Sh450,000 = (PX5 x tox5) +P		

ON SOLUTION	MEX	COMMENT
Sh450,000=(Px5x1 x5)+P		
Sh459000 = 9 + P		
Sh450,000X8 = PX8+PX8	8	
Sh459000X8 = P+8P		the units should be properly placed
48 60°		low beny blaced
Sh:3600000 = 9P		
\$13600000 = 9P		
9, 9,		
8h 400,000 = P		
: He bornowed on 400,000	A	For correct
DI = PXRXT		
I = SH400,000x 10 x 2	4	For finding interest
T = 8h.\$0,000		first
A = Sh 480,000 / A = Sh 480,000 / He would pay sh 480,000	A	For finally getting the amount.

NP	SOLUTION	MRK	COMMENT,
32.	Ne of poles = Perimeter Interval		In closed Shapes we
	No groles = 2CL+W) No groles = 2C(20+50).		don't add or subtract
	No of poles = 2x170m		anything, Aledeal
	10 M No of poles = 340M No of poles = 34	A	normally.
4	2 poles (> 1/27000) 1 pole (> 5/27000) 3 4 poles (> 5/27000) 3 4 poles (> 5/1459000)		Reject 2poles = sh 2700 Accept 2poles cost sh2700
0	$A = 2C1$ $A = 120mx 50m$ $A = 6000m^2$	MAI	- Correct method
	ENDCOMPILED	BY 070	, ,